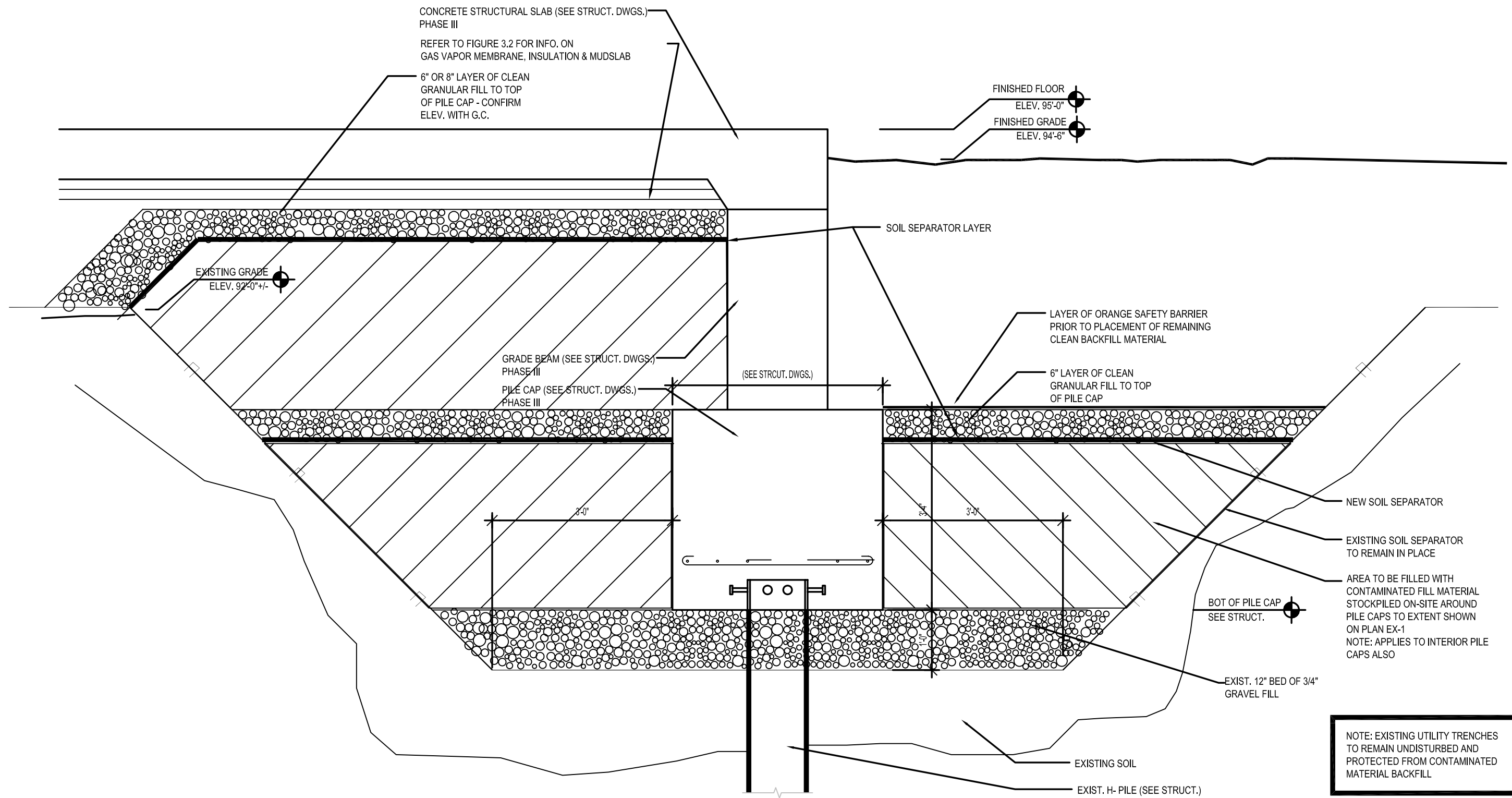


### **Figure 3.1**

---

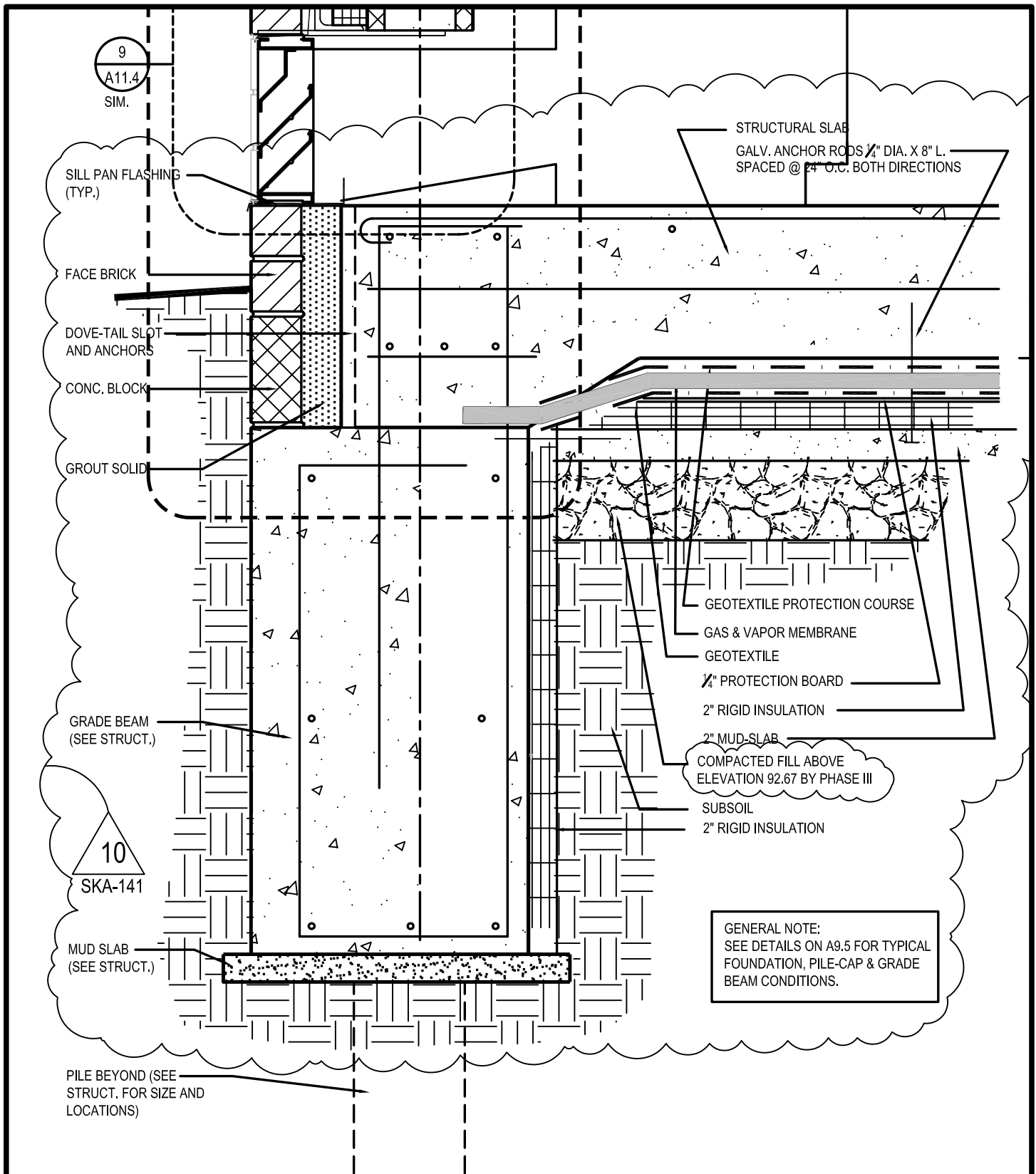
Typical Backfill Detail for  
Pile Caps and Grade Beams



---

### **Figure 3.2**

Detail on Gas Vapor  
Membrane, Insulation &  
Mudslab



## **Figure 4**

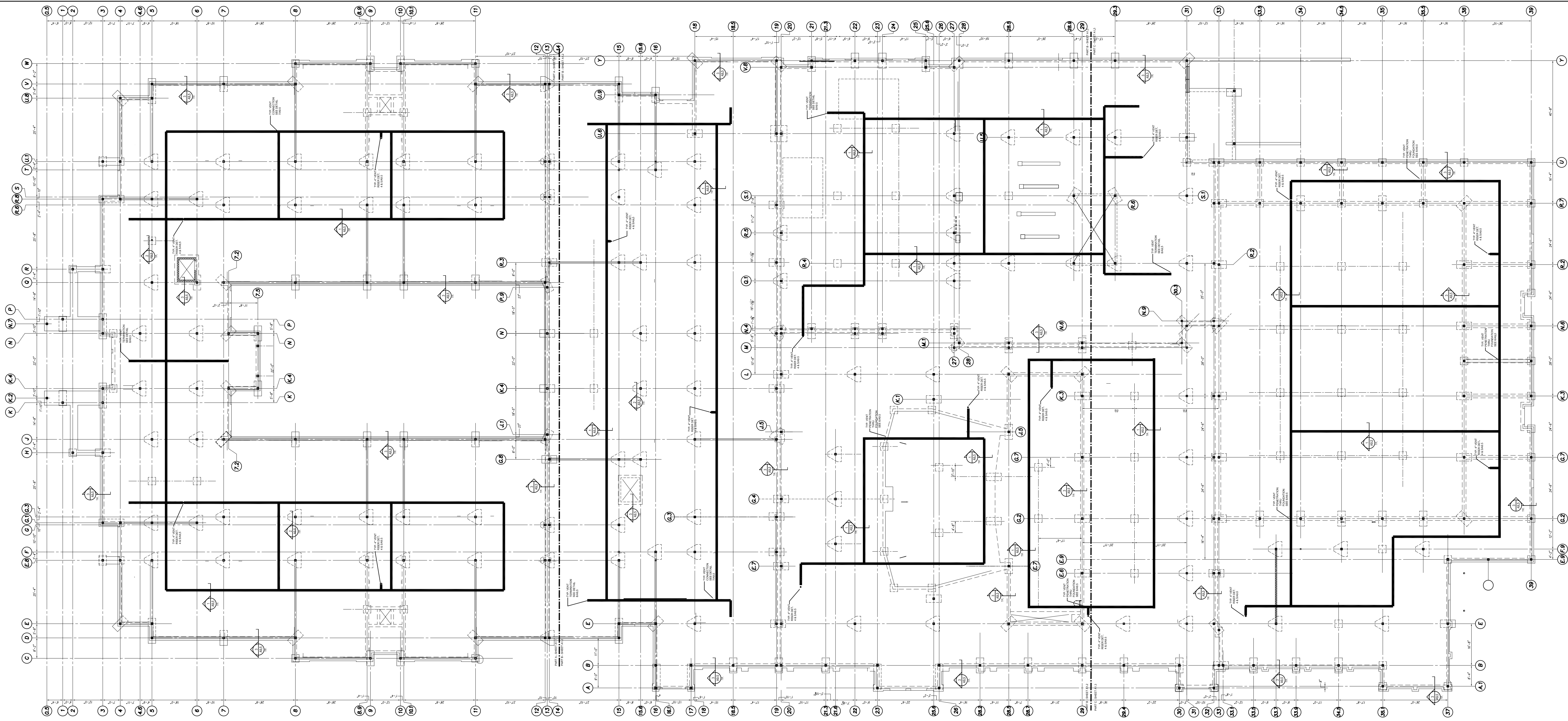
---

Gas Vapor Barrier &  
Venting Plan Details

Draft Risk-Based Cleanup Request

## **FIGURE 4**

Figure 4 – Gas Vapor Barrier & Venting Plan Details – Hardcopy only (extracted from Phase III Contract Documents A9.5). See BETA hardcopy of Risk-Based Cleanup Request. Above “title block” was taped over A9.5 and copied.



UNDER SLAB GAS VAPOR MEMBRANE & VENTING PLAN  
1" = 20'-0"

- NOTES:
1. THIS PLAN IS A DIAGRAMMATIC REPRESENTATION OF A POTENTIAL VENTING LAYOUT & RISER LOCATION PLAN. FINAL COORDINATION & LAYOUT TO BE INCLUDED AS PART OF THE SUBMITTAL PROCESS AND APPROVED BY THE ARCHITECT.
  2. A VENT RISER IS TO BE PROVIDED FOR EVERY 7500 S.F. OF UNDER SLAB AREA. THIS CONTRACTOR TO LEAVE A 6" STUB ABOVE THE FIN. F.L.R. FOR CONTINUATION THRU THE ROOF BY PLUMBING SUB-CONTRACTOR.
  3. FOR PILE CAP & GRADE BEAM LAYOUT & DETAILS REFER TO STRUCTURAL DRAWINGS S1.1 THRU S1.3.
  4. FOR BELOW SLAB PLUMBING LAYOUT REFER TO DRAWINGS P1.1 THRU P1.3.
  5. A COMPLETE GAS MEMBRANE & VENTING SYSTEM INSTALLATION TO BE PERFORMED BY DIV. 07100.

CONSULTANTS

REVISIONS

PROJECT NUMBER

KEITH MIDDLE SCHOOL  
New Bedford, Ma.

20005.00

DRAWING TITLE

GAS VAPOR BARRIER & VENTING PLAN & DETAILS

Mount Vernon Group Architects, Inc.  
20 Cabot Road  
Woburn, Massachusetts 01801

781 937 9720 T  
781 937 9728 F  
info@mvgarchitects.com E

SEAL

SCALE AS NOTED

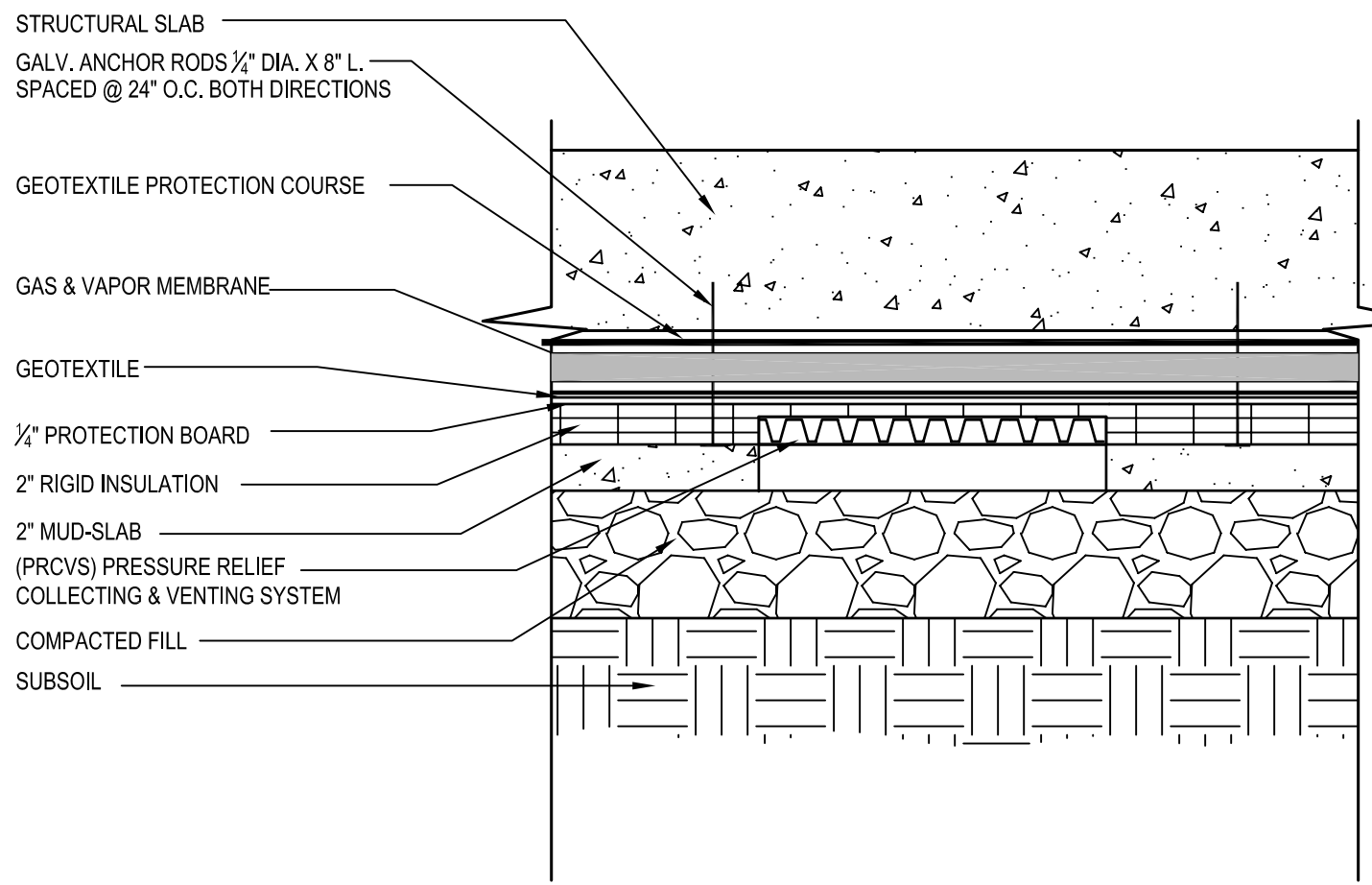
DRAWN BY

CHECKED

DATE

DRAWING NUMBER

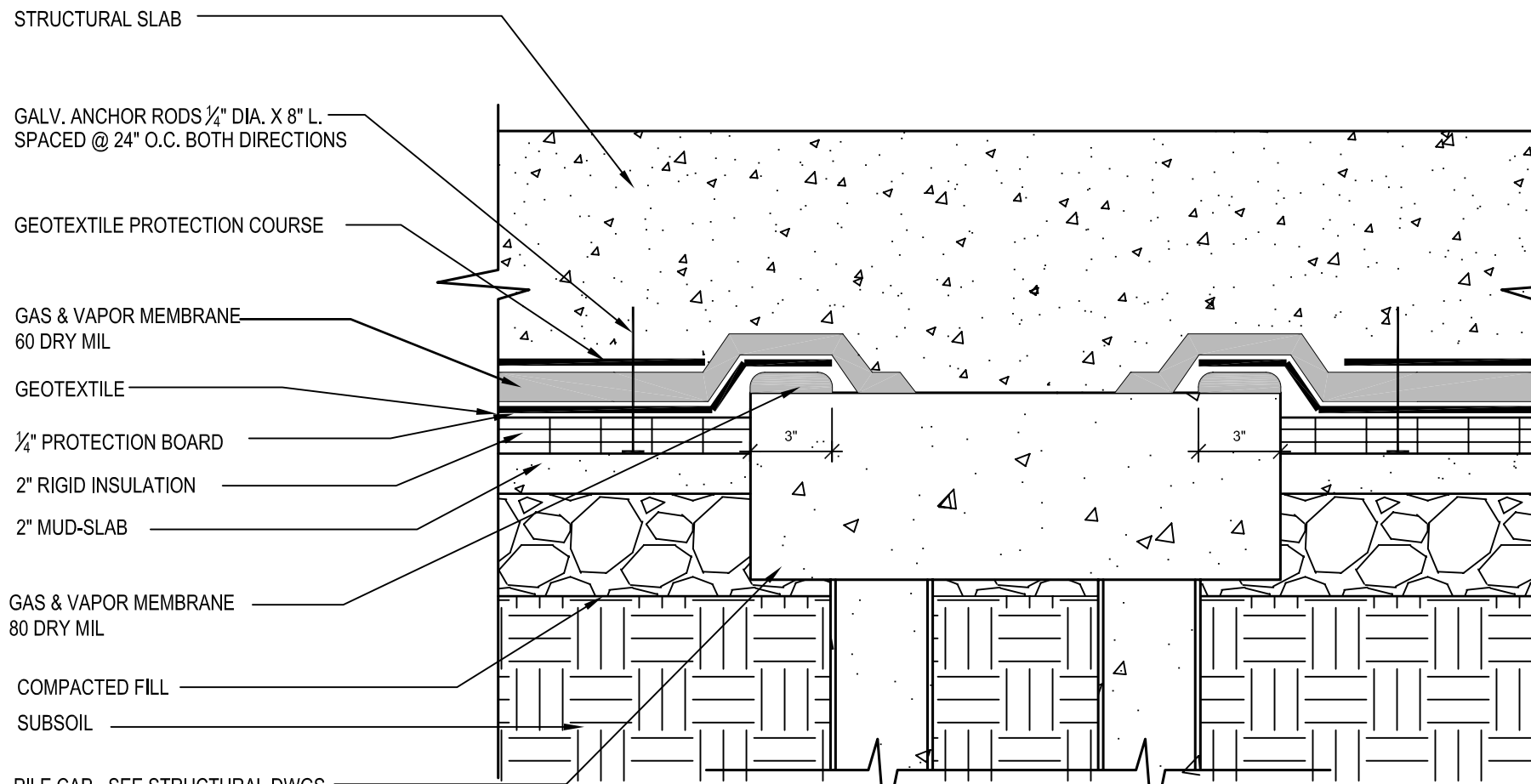
A9.5



MEMBRANE & VENT DETAIL

1 1/2" = 1'-0"

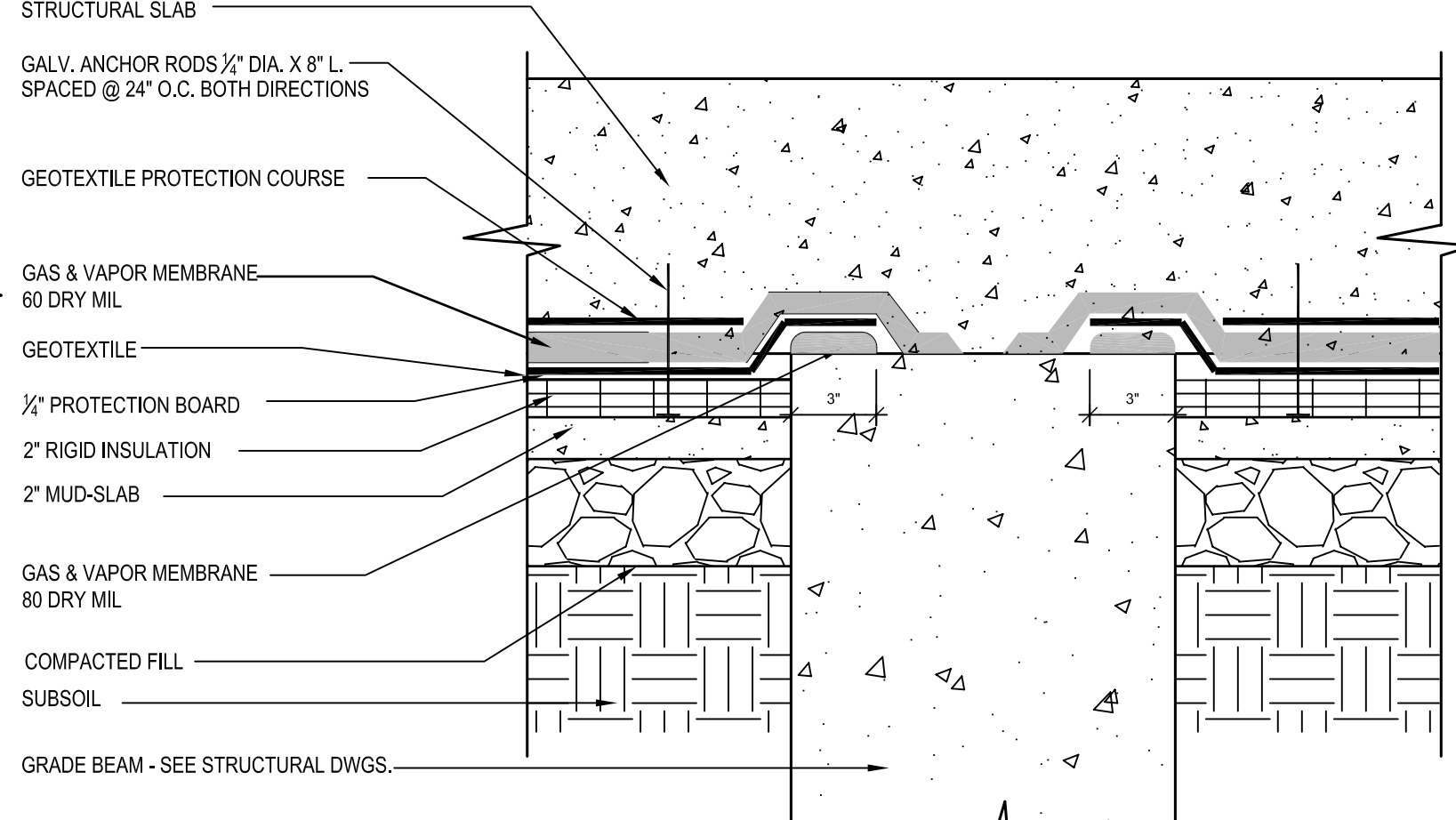
1 TYPICAL



MEMBRANE AT PILE CAP

1 1/2" = 1'-0"

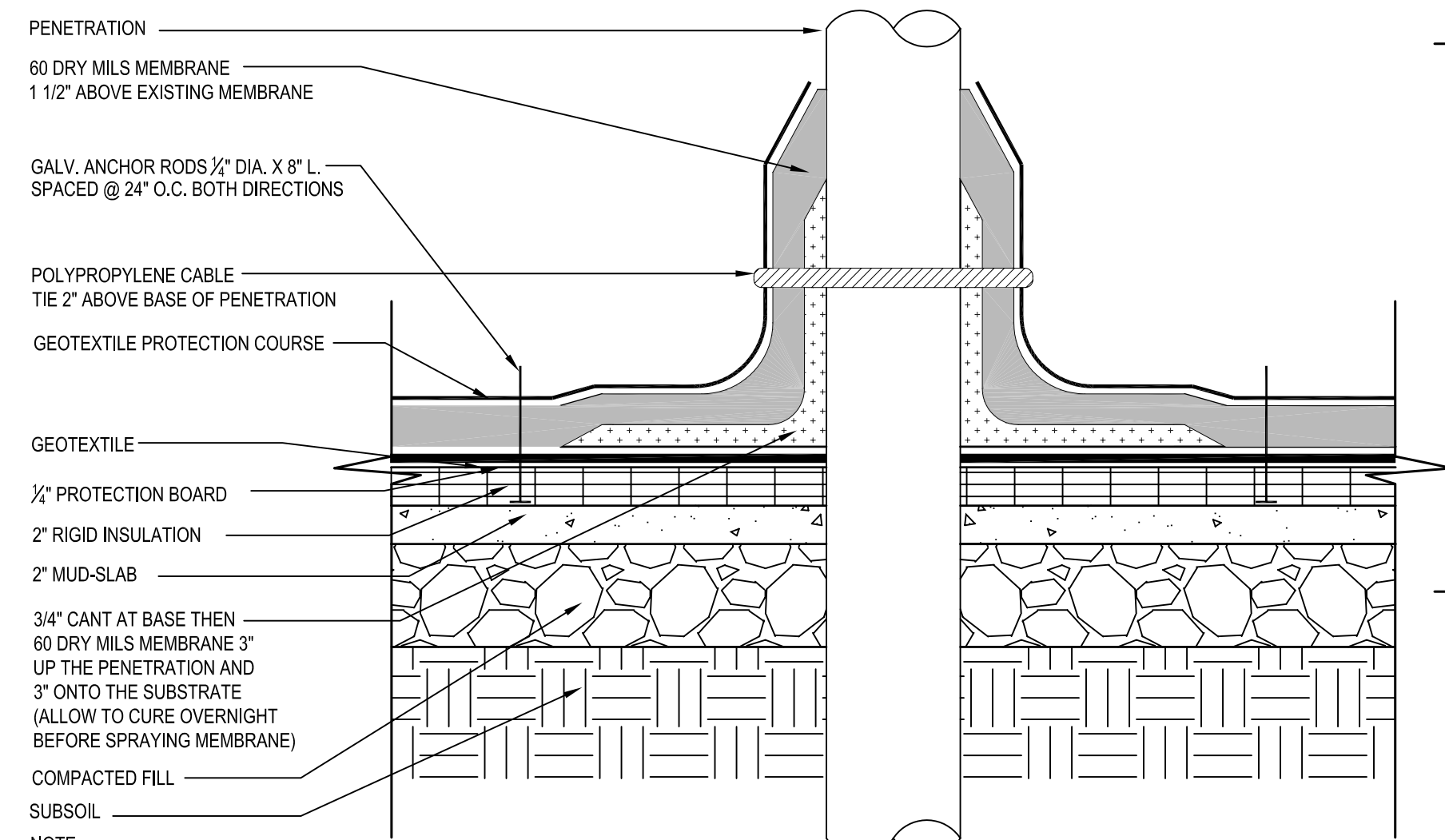
2 TYPICAL



MEMBRANE AT GRADE BEAM

1 1/2" = 1'-0"

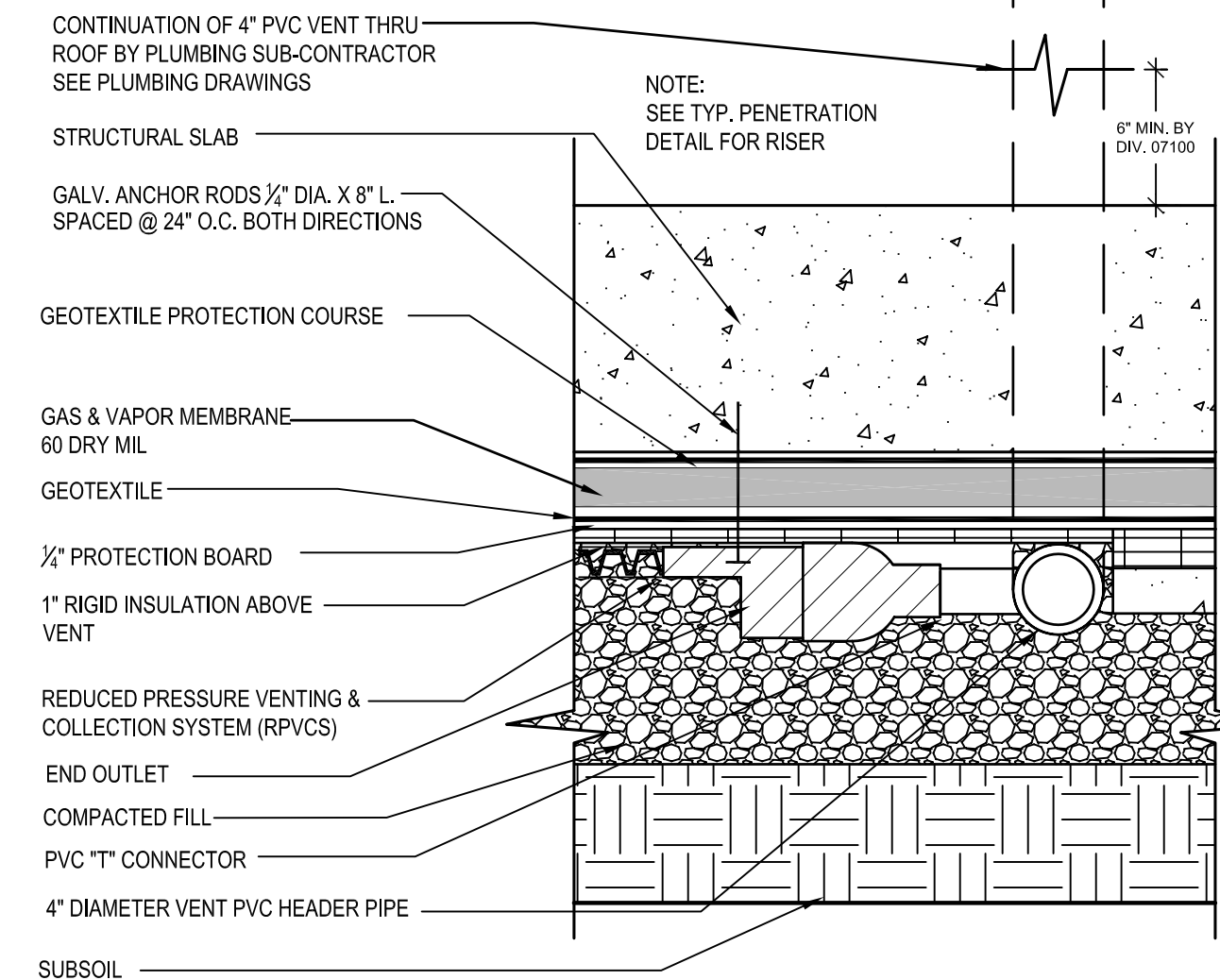
3 TYPICAL



TYPICAL PENETRATION

1 1/2" = 1'-0"

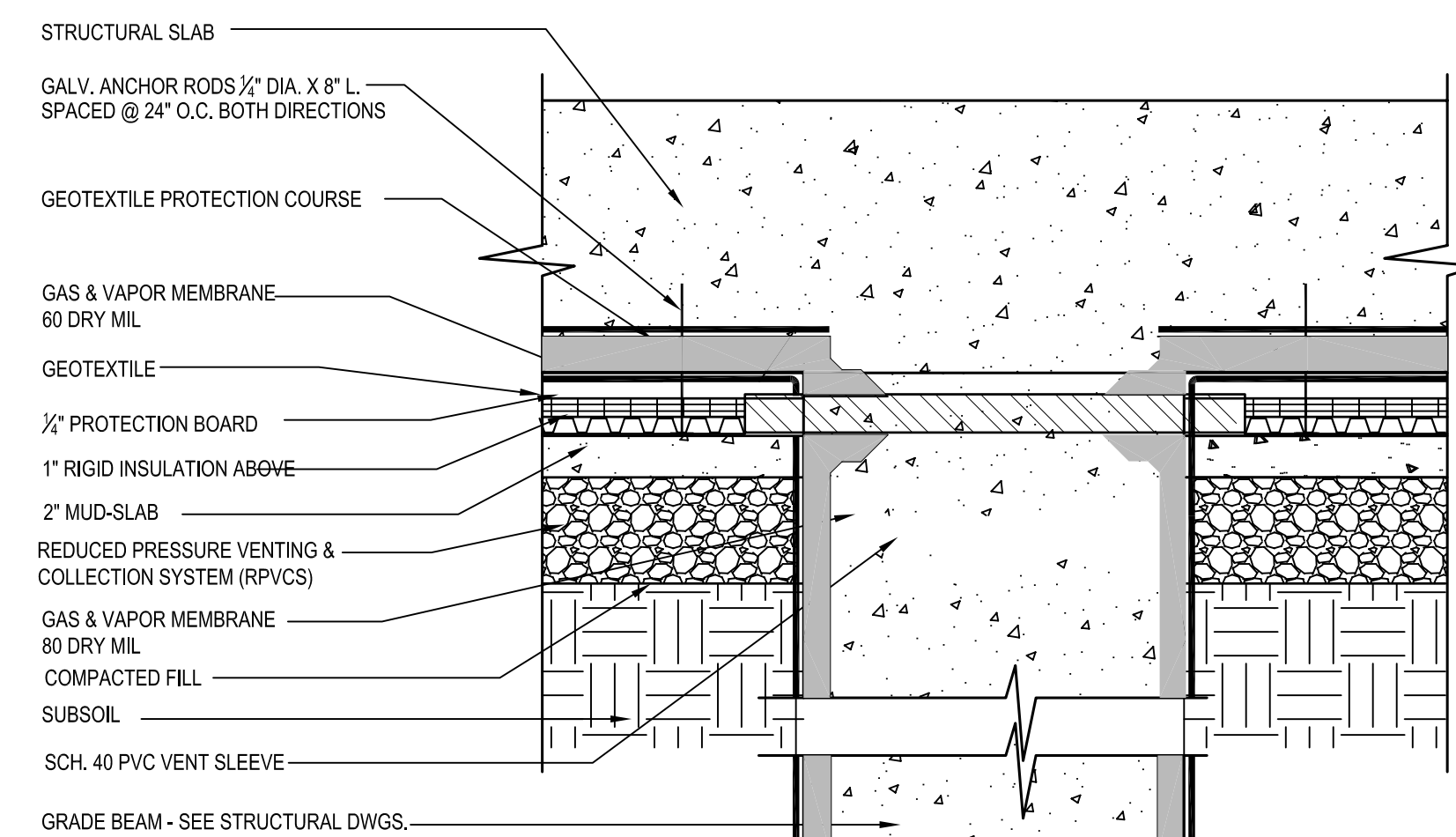
4 TYPICAL



VENT CONNECTION TO HEADER PIPE & RISER

1 1/2" = 1'-0"

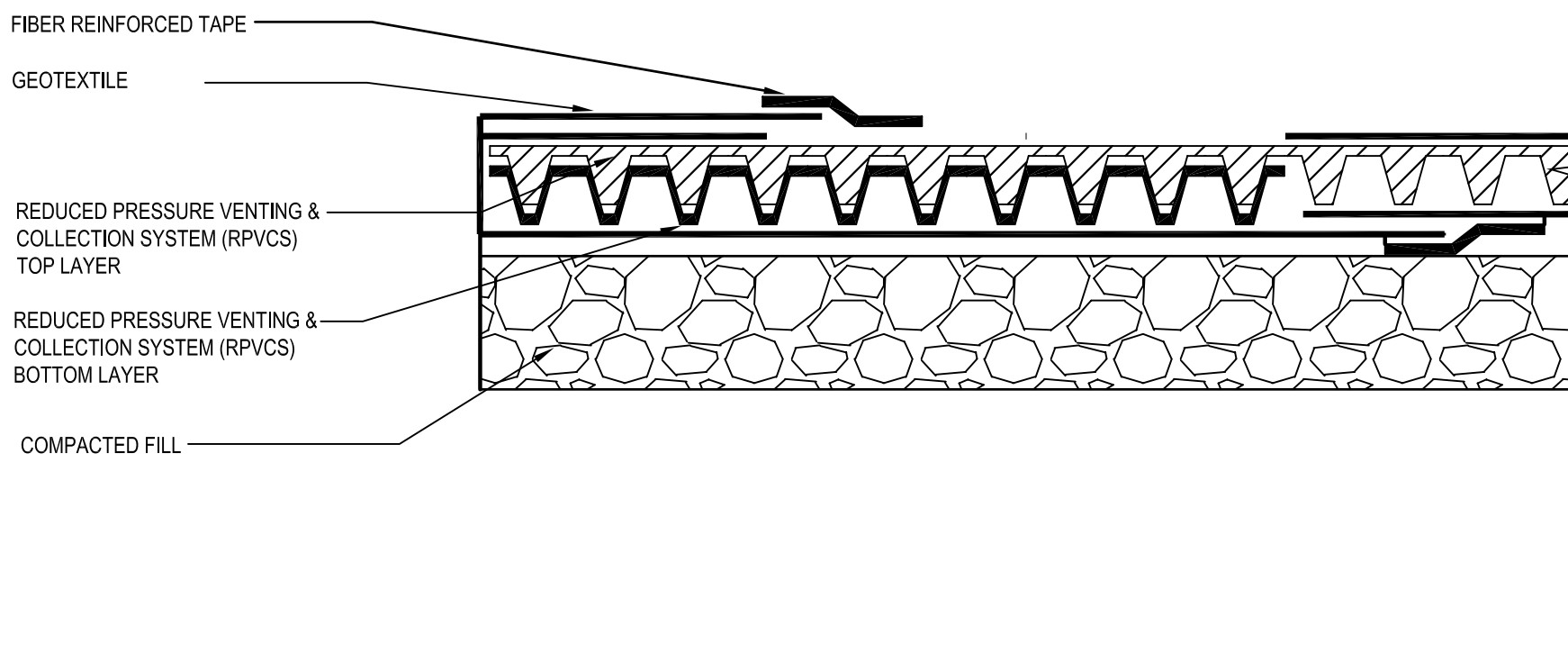
5 TYPICAL



VENT THRU FOUNDATION

1 1/2" = 1'-0"

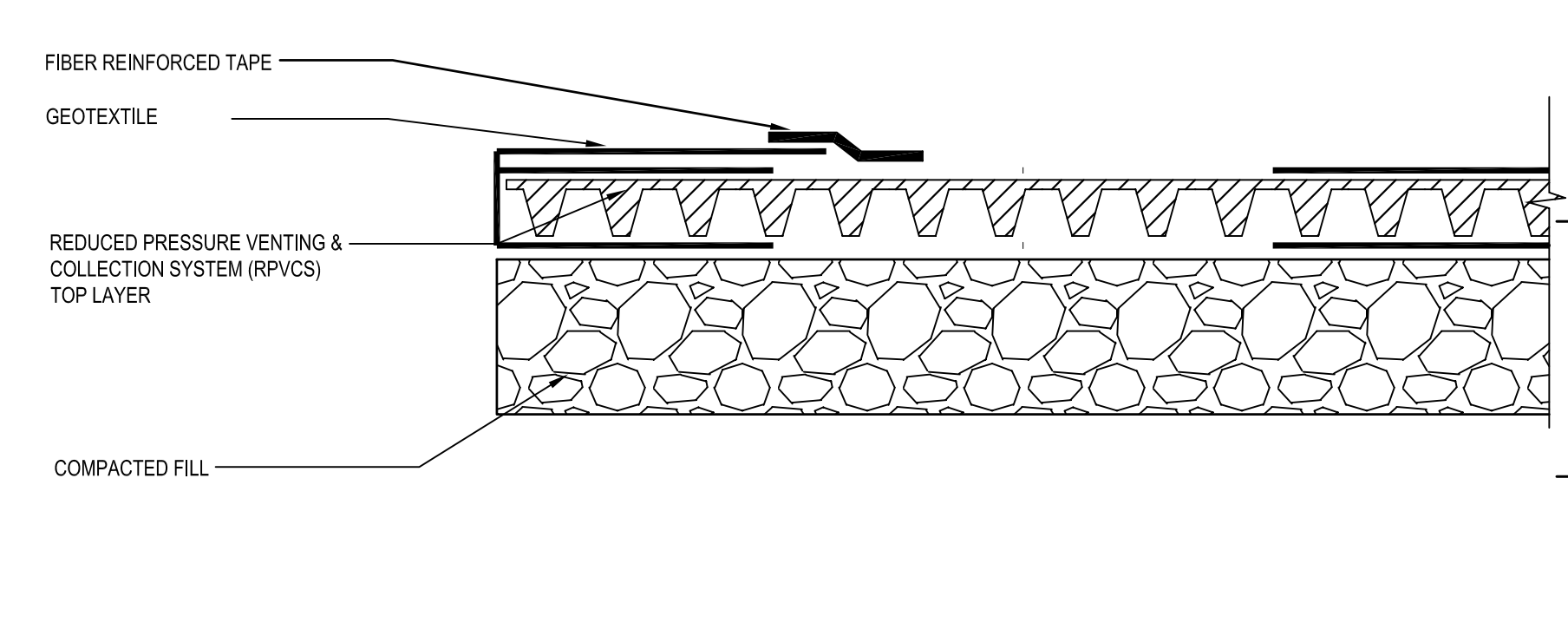
6 TYPICAL



(RPVCS) VENT CONNECTION

1 1/2" = 1'-0"

7 TYPICAL



(RPVCS) VENT TERMINATION

1 1/2" = 1'-0"

8 TYPICAL

## **Figure 5**

---

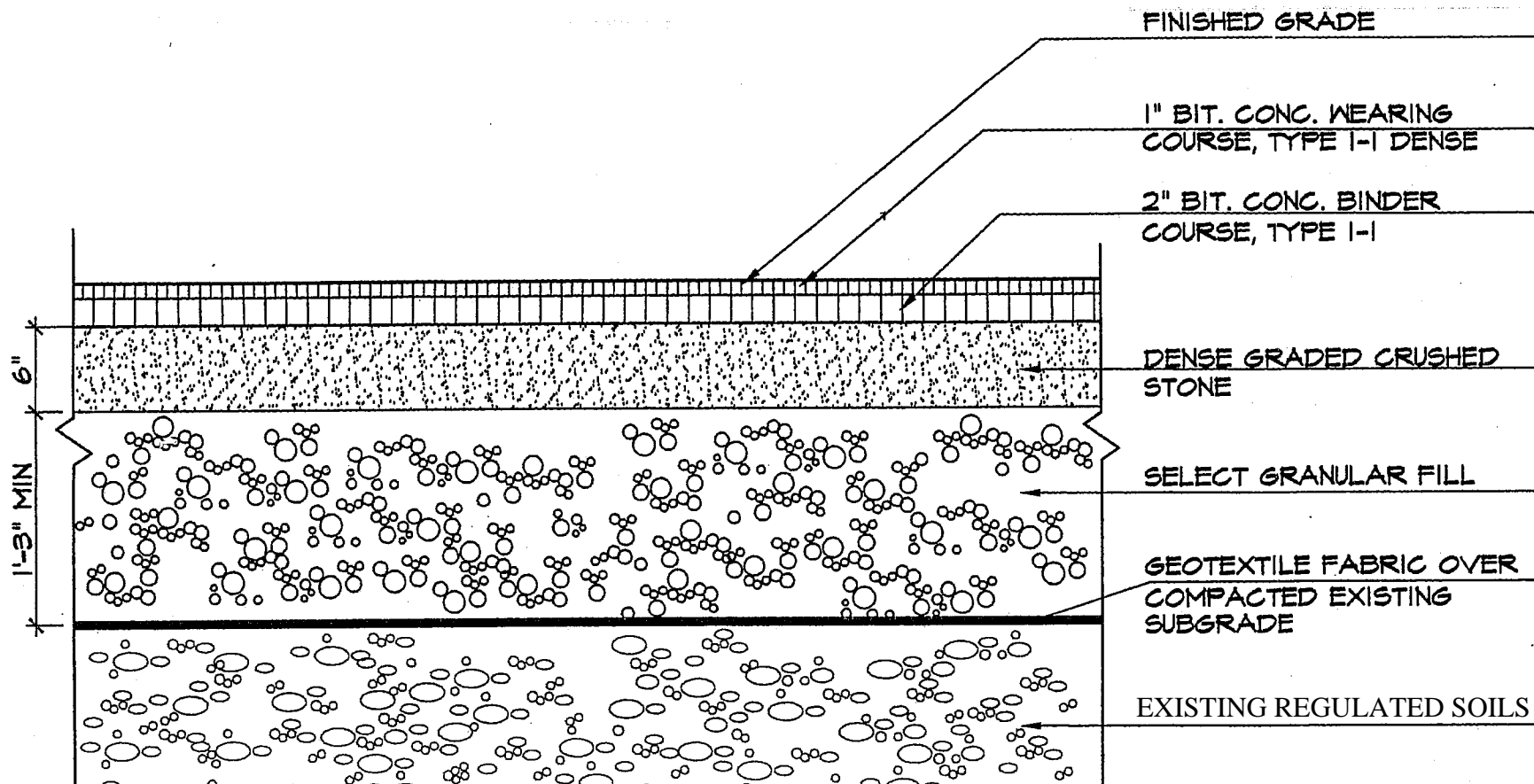
Paved Area Cross Section

Draft Risk-Based Cleanup Request

## **FIGURE 5**

Figure 5 – Paved Area Cross-Sections – Hardcopy only (extracted from Phase III Contract Documents L6). See BETA hardcopy of Risk-Based Cleanup Request. Above “title block” was taped over L6 and copied.

DRAFTING NUMBER



SECTION

3

BITUMINOUS CONCRETE ROADWAY PAVEMENT

L6

SCALE: 1"=1'-0"

## **Figure 6**

---

Landscaped Area  
Cross Section

Draft Risk-Based Cleanup Request

## **FIGURE 6**

Figure 4 – Landscaped Area Cross-Sections – Hardcopy only (extracted from Phase III Contract Documents L9). See BETA hardcopy of Risk-Based Cleanup Request. Above “title block” was taped over L9 and copied.



1	DECIDUOUS TREE PLANTING AND STAKING
L9	SCALE: N.T.S



## 2 CONIFEROUS TREE PLANTING AND STAKING



L9



6 PLANT SPACING CHART

\_\_\_\_\_

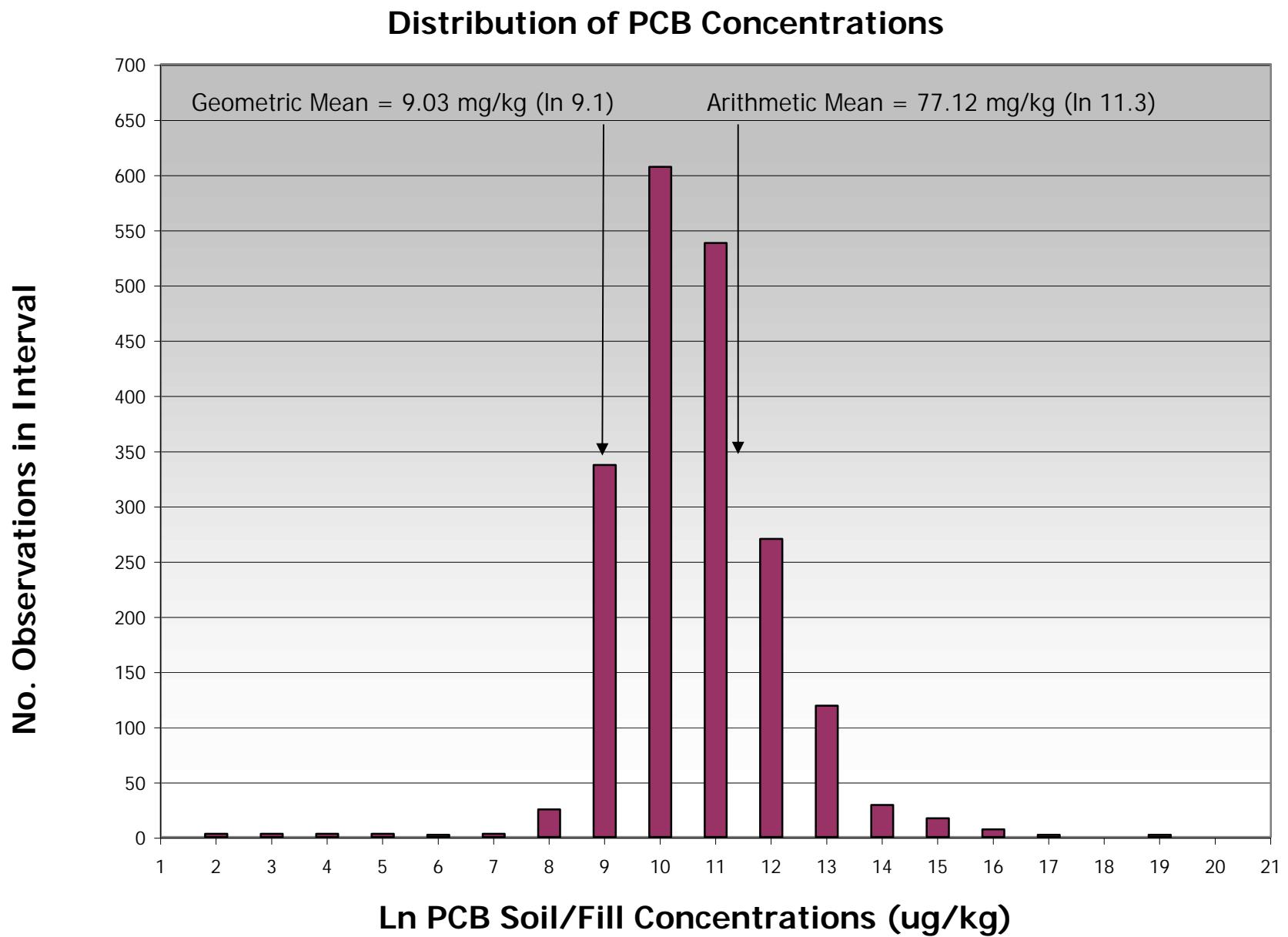


---

## **Figure 7**

Distribution of PCB  
Concentrations

Figure 7



**THIS ATTACHMENT CONSISTS OF HARD COPY (PAPER) PLAN  
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FAX: (508)979-1481

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MONDAY -THURSDAY

9:00AM - 9:00PM

FRIDAY & SATURDAY

9:00AM - 5:00PM

**CLOSED SUNDAY & HOLIDAYS  
HANDICAPPED ACCESSIBLE**

---

**Figure 8**

Hay Bales and Silt Fence  
(Phase III Contract  
Drawing EX.1)

Draft Risk-Based Cleanup Request

## **FIGURE 8**

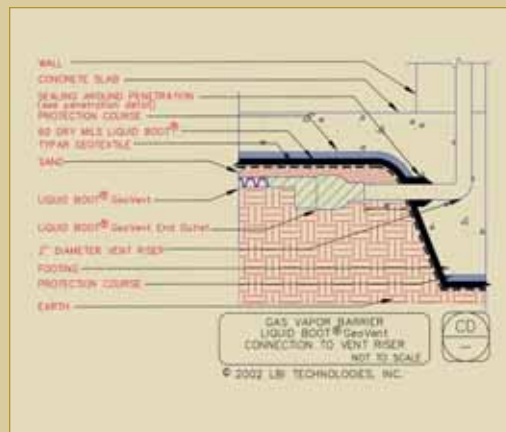
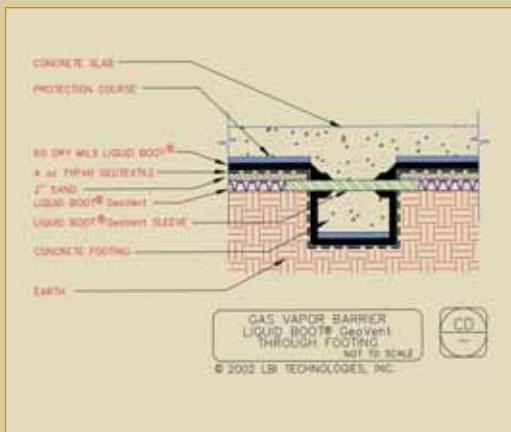
Figure 8 – Hay Bales and Silt Fence – Hardcopy only (extracted from Phase III Contract Documents EX1). See BETA hardcopy of Risk-Based Cleanup Request. Above “title block” was taped over EX1 and copied.

## **Figure 9**

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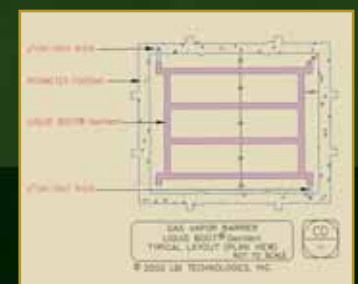
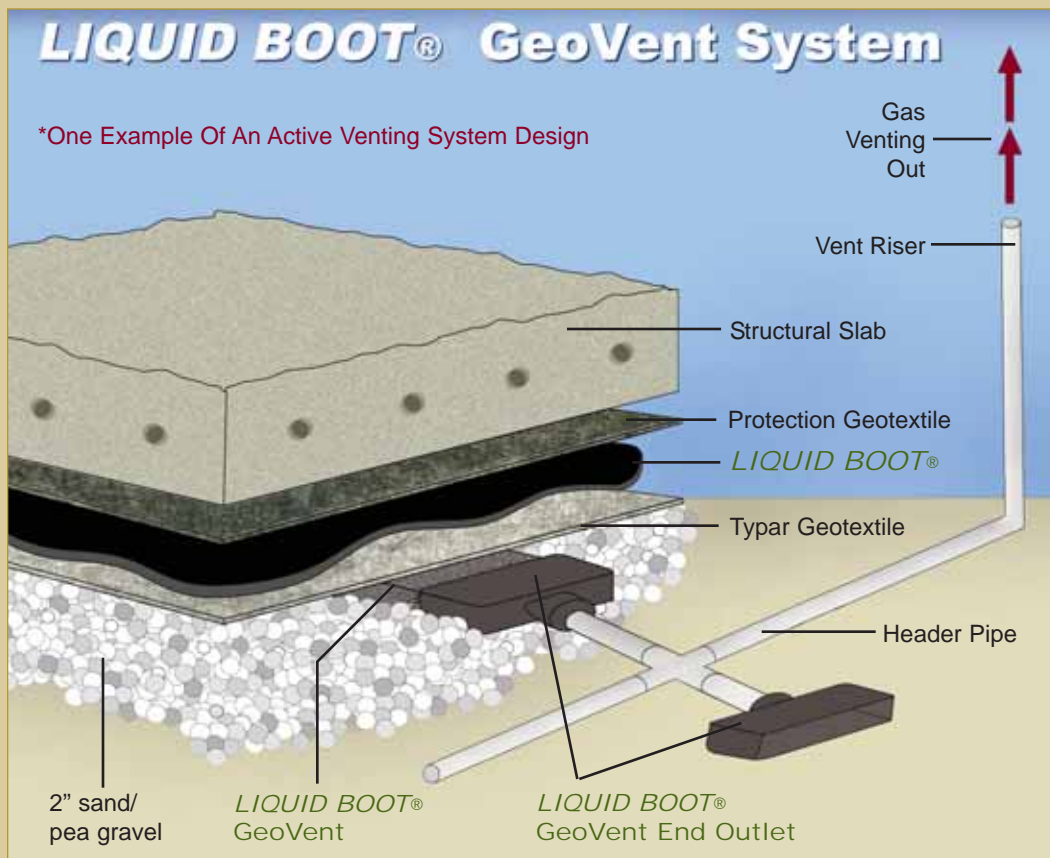
Geovent – PVC Vent and  
PVC Header Pipe Connection

# LIQUID BOOT® GeoVent



LBi's Technical Experts Will Design Your Membrane and Venting System with Custom Details & Specifications.

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## warranty:

Contact LBI Technologies, Inc. for complete details regarding *LIQUID BOOT®* warranty at:

Ph | 714.384.0111

e-mail | [lbi@liquidboot.com](mailto:lbi@liquidboot.com)

web | [www.liquidboot.com](http://www.liquidboot.com)

